



Ministry of Infrastructure  
and Water Management

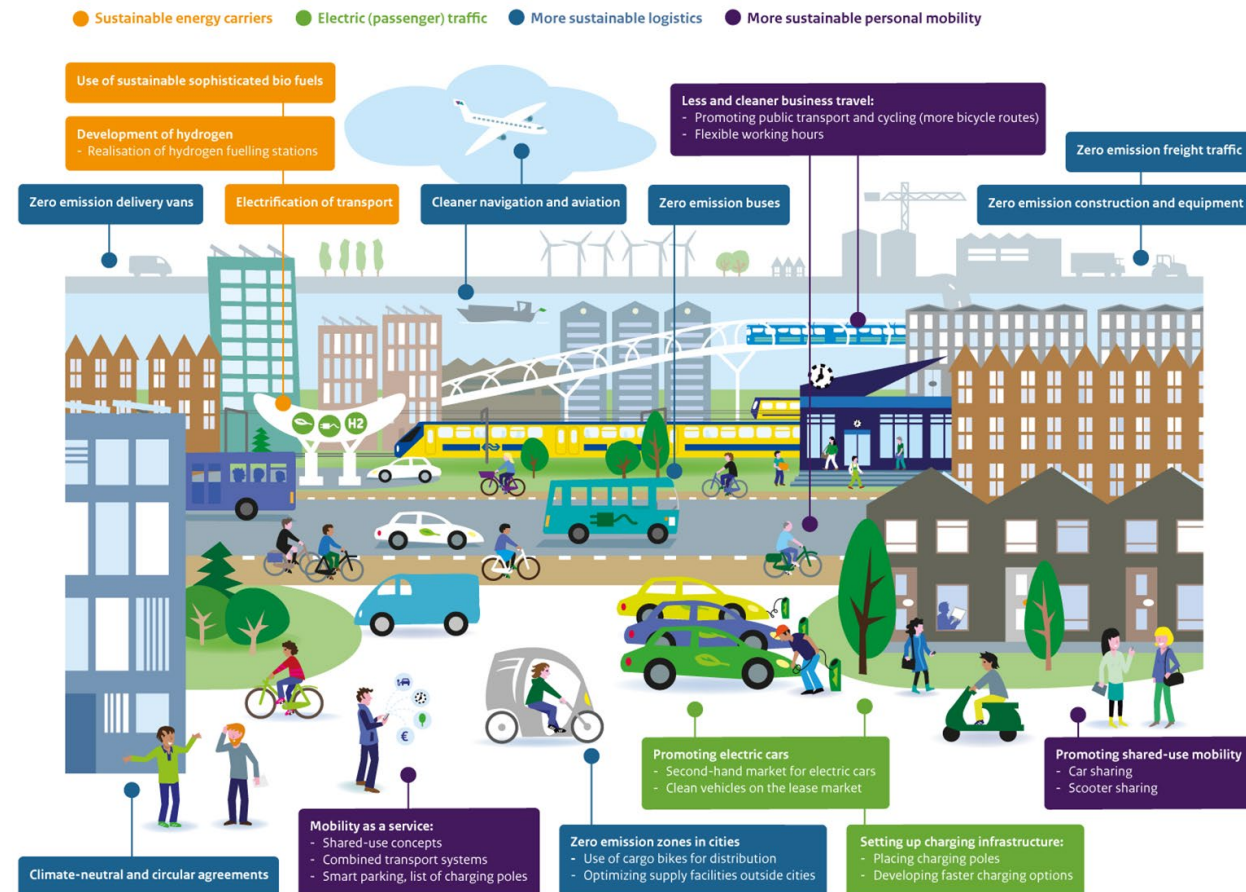
# The Dutch EV and charging infrastructure approach

Lies van den Eijnden



# Climate agreement and EV

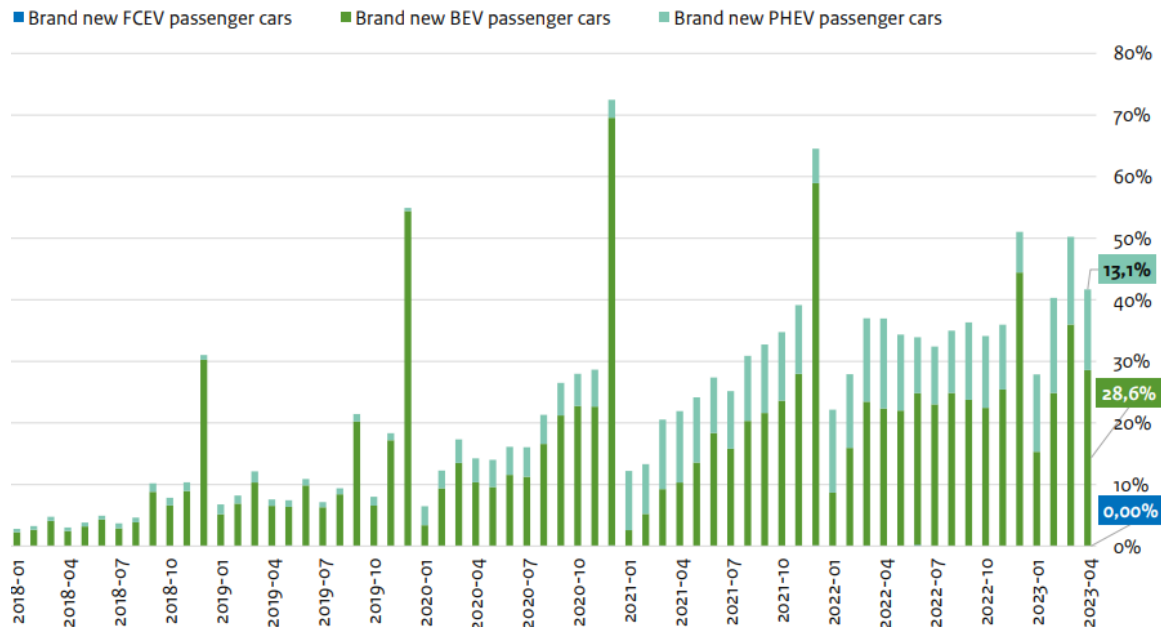
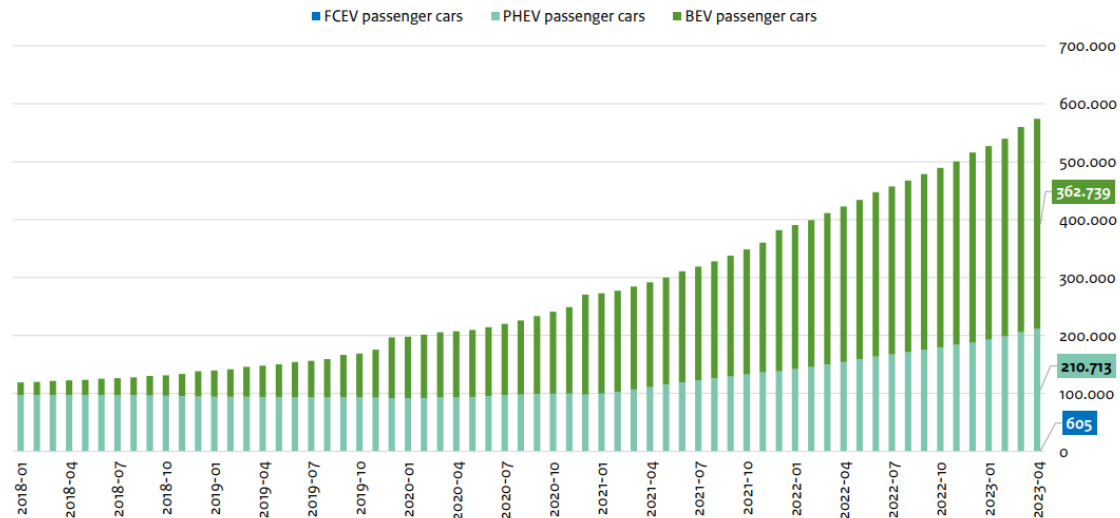
- > Dutch policy goal: 100% of new sales passenger cars are zero-emission vehicles in 2030 (current policy: 60%).
- > Climate Agreement sets the tax and financial incentives for the years 2020-2025.





# Electric fleet development

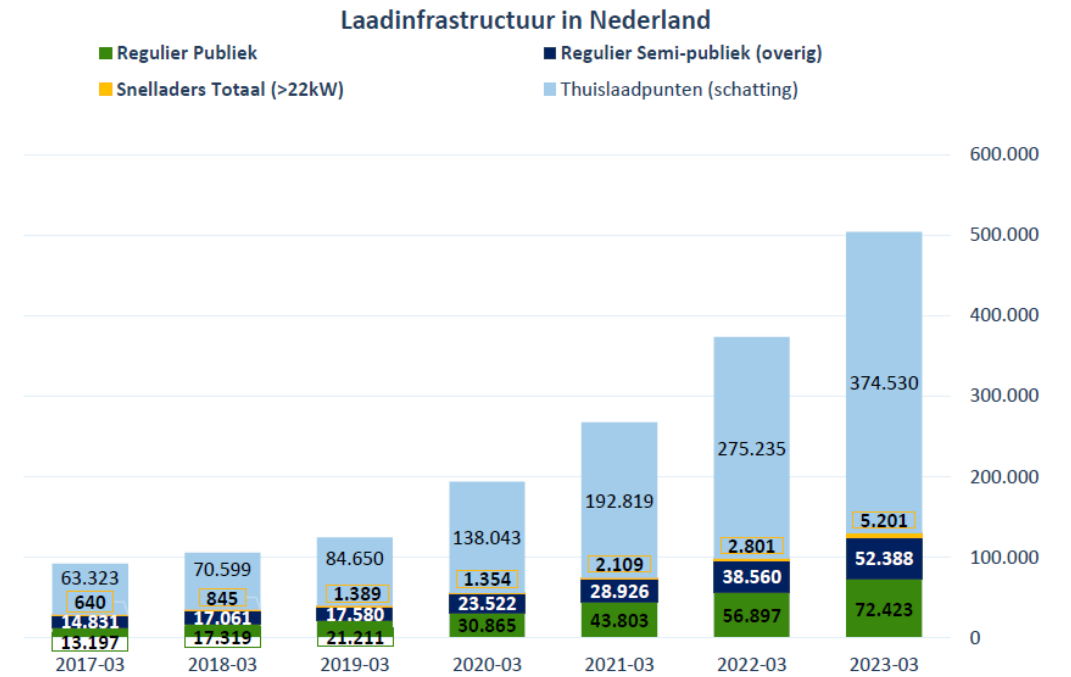
## # EV Passenger Cars



Source: Rijksdienst voor Ondernemend Nederland, juni 2023



# Charging infrastructure development



Figuur 1. Aantal laadpunten in Nederland<sup>1</sup>



# Understanding NL

- > High dependency (~70%) on public parking and charging
- > Market driven approach supported by clear governance structure
- > Grid operators have a facilitating role

Source photo: ElaadNL







# National Charging Infrastructure Agenda

- > Multiyear and multi-stakeholder agenda
- > *Charging your car: easy, smart and everywhere*
- > Main pillars: interoperability, open protocols and a competitive market
- > Cooperation between grid operators and national and regional governments to:
  - Tackle national challenges
  - Speed up regional roll-out

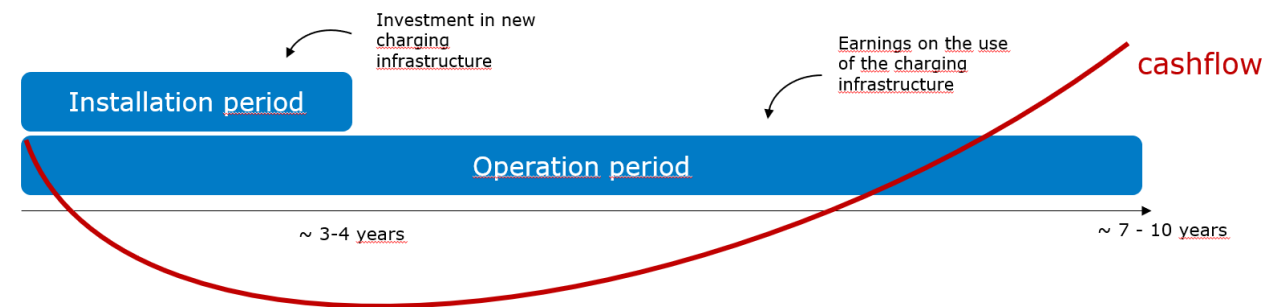


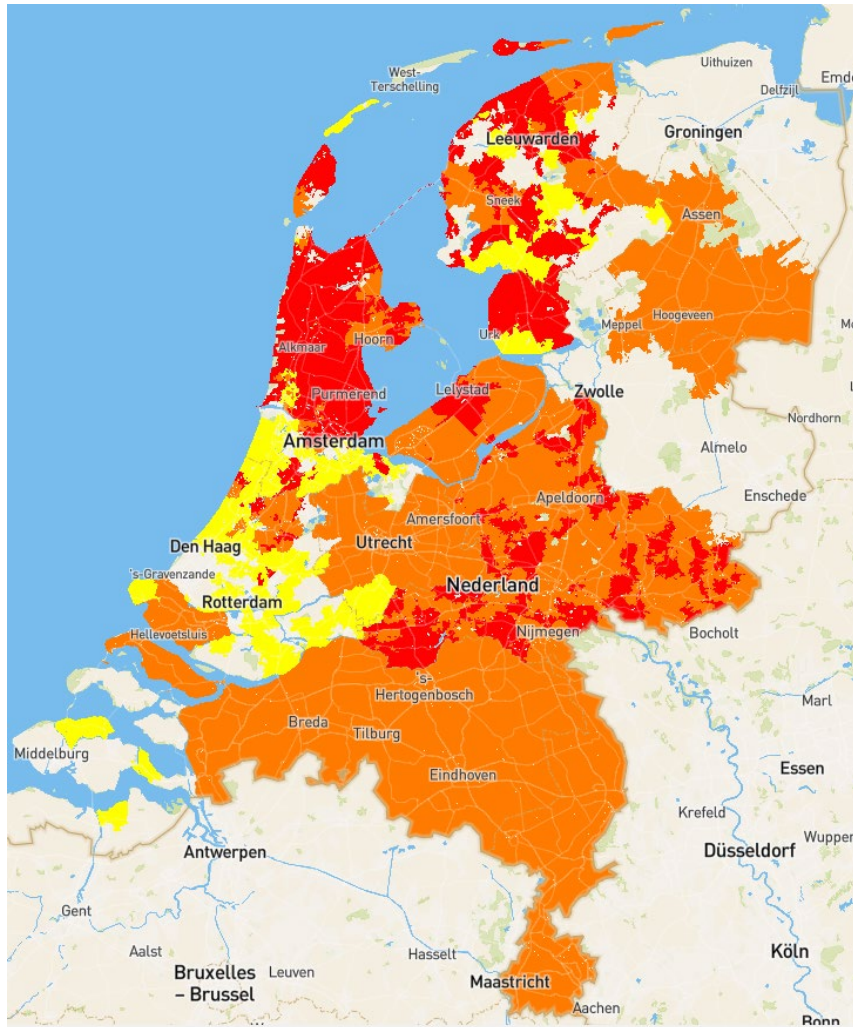
**Ocpp**  
Open Charge Point Protocol



# Public charging infrastructure investments

- > Charge Point Operators tender for long term contracts including the full financial and operational responsibility
  - Competition on price takes place during the tender phase in various ways (on sales price or contribution per charger)
- > CPOs get the exclusive right to develop a charging network during the installation period, aiming for a positive business case





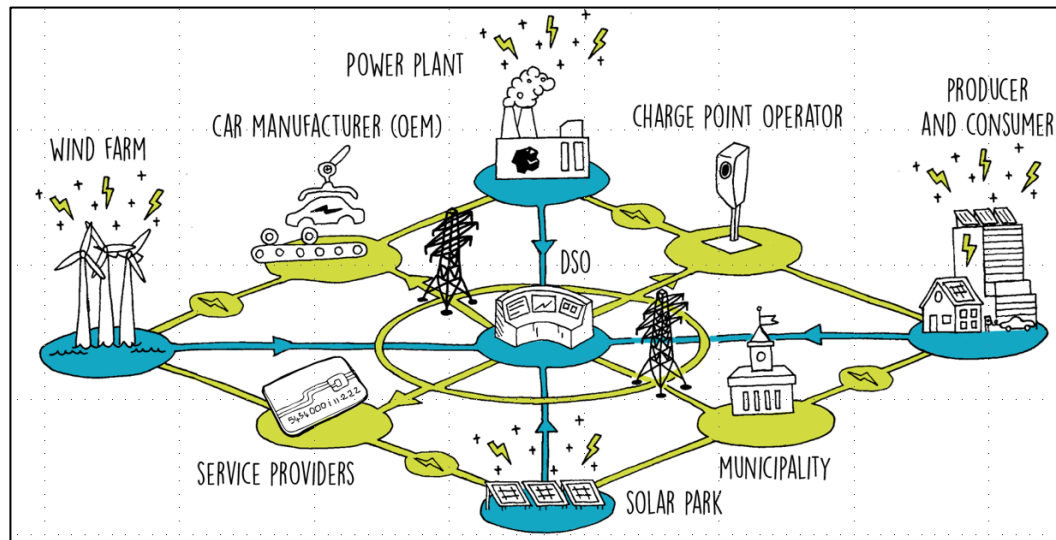
# Mobility & Energy: Challenges

- › Sufficient grid capacity
- › Governance: mobility and energy are detached
- › Charging beyond borders
- › Battle for standards





# Mobility & Energy: Solutions



- › Improve Outlooks
- › Include Mobility in the Energy domain
- › Mobility as a solution: Smart Charging and V2G
- › Alternative Fuels Infrastructure Regulation (AFIR)



# Next steps

## Collaboration in the ECE-region

- > Charging
  - Speed up roll-out
  - Harmonize charging infrastructure (access, payment, navigation etc.)
- > Energy system
  - Provide sufficient grid capacity in a safe manner
- > Level playing field
  - Open protocols and standards





# Questions?

Lies van den Eijnden

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